PATENT COOPERATION TREATY

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	see form PCT/ISA/220	INTERNATIONAL SEARCHING AUTHORIT		
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		(PCT Rule 43bis.1)		
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	•	Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)		
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oplic	ant's or agent's file reference	FOR FURTHER ACTION See paragraph 2 below		
	orm PCT/ISA/220			
ntern	ational application No. International filing date	(day/month/year) Priority date (day/month/year)		
	1B2005/050405 31.01.2005	06.02.2004		
	ational Patent Classification (IPC) or both national dassification	n and IPC		
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	This opinion contains indications relating to the fo			
	Box No. I Basis of the opinion			
		egard to novelty, inventive step and industrial applicability		
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Telephone No. +31 70 340-



International application No. PCT/IB2005/050405

_	Box No	. I Basis of the opinion
1.	With re	gard to the language, this opinion has been established on the basis of the international application in
	☐ Th	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search or the purpose of a translation of the purpose of a translation of the purpose of the
2.	With re	gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
		in computer readable form
	c. time	e of filing/furnishing:
	· 🗖	contained in the international application as filed.
•		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
	ì	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
	4. Addit	ional comments:

International application No. PCT/IB2005/050405

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims

1-20

No:

Inventive step (IS)

Yes: Claims

No: Claims

1-20

1-20

Industrial applicability (IA)

Yes: Claims

No: Claims

2. Citations and explanations

see separate sheet

Box No. Vill Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V.

1 Reference is made to the following documents:

D1: US 5 924 988 A (BURRIS ET AL) 20 July 1999 (1999-07-20)

D2: PATENT ABSTRACTS OF JAPAN vol. 017, no. 285 (C-1066), 2 June 1993 (1993-06-02) &; JP 05 015529 A (MATSUSHITA ELECTRIC IND CO LTD), 26 January 1993 (1993-01-26)

D3: US 6 669 639 B1 (MILLER BRAD A ET AL) 30 December 2003 (2003-12-30)

D4: UŞ 2003/220565 A1 (MESAROS ROBERT ET AL) 27 November 2003 (2003-11-27)

- 2. The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 1 does not involve an inventive step in the sense of Article 33(3)PCT.
- 2.1 Document D1, which is considered to represent the most relevant state of the art to the subject matter of claim 1, discloses (the references in parentheses applying to this document):
 An ultrasonic diagnostic imaging system including main body housing imaging electronics and a control panel (see abstract; Figures 1, 2 and 5) comprising: a flat panel display (530) (Figure 5; abstract) and an articulating arm assembly to which the display is connected for adjusting the viewing position of the display, the articulating assembly including a first arm (560) movably mounted to the main body (by hinge 580) and a second arm movably connected to the first arm and to the flat panel display (see column 6, lines 12-20;
- 2.2 The subject-matter of independent claim 1 differs from the disclosure of D1 in that: one of the arms includes a 4-bar linkage.
- 2.3 The problem to be solved by the present invention may therefore be regarded as how to (re-)position the display over a wide range of viewing positions.
- 2.4 In view of D2 the solution proposed in claim 1 of the present application cannot be

Figure 5).

considered as involving an inventive step (Article 33(3) PCT) since D2 clearly teaches that the use of a 4-bar linkage (pair of links 9,10) with a piston for balancing the mass advantageously allows to position the display at an arbitrary position.

- 2.5 Therefore the features disclosed in D1 and D2 would be combined by the skilled person, without exercise of any inventive skills in order to solve the problem posed. The proposed solution in independent claim 1 thus cannot be considered inventive (Article 33(3) PCT).
- 3. In using the device of D1 (or of the combination of D1 and D2), the skilled person would routinely encounter that the articulating mechanism may strike any accessory device located on the top surface of cart (510) or may damage the surface itself. In order to solve this problem in a similar ultrasonic diagnostic imaging system, D3 teaches to incline the first arm by a fixed angle (see e.g. D3: column 2, lines 24-41; column 3, lines 20-23).

 Consequently, the subject-matter of independent claim 15 does not involve an inventive step.

Claims 16 to 17 do not involve an inventive step for the reasons given under point 2 above.

- 4. From document D1 is known an ultrasonic diagnostic imaging system including a wheeled cart, flat panel and an articulation mechanism (see point 2 above). The subject-matter of present claim 18 differs from this prior art in that it further comprises a laterally articulated control panel. This difference, however, does not involve an inventive step as this is rendered obvious by document D4 (see e.g. abstract). Claim 18, therefore, does not meet Article 33 (3) PCT for lack of inventive step. Claims 19 and 20 define features which are known from D1 and/or D2 and therefore do not involve an inventive step.
- 5. The further features of the remaining dependent claims are known or trivial in view of the prior art. Document D3 e.g. discloses the problem and solution associated with restricting the range of rotation to less than 360 degrees as in present claim 9

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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and with locking the arms and a user operated lock release as in present claims 4 to 5 (see e.g. D3: column 3, lines 13-22; column 4, lines 10-13; and column 3, lines 24-60).

Consequently, the subject-matter of claims 2 to 14 do not involve an inventive step.

Re Item VIII.

The various definitions of the subject-matter given in the plurality of independent claims, each reciting a different combination of limitations expressed at different levels of generalizations and largely repetitive, are such that the claims as a whole are not clear and concise. The requirements of Article 6 PCT, therefore, are not met.

Consequently, the different combinations of features recited in the plurality of independent claims do not allow to correctly identify "the claimed invention" on which an opinion in the sense of Article 33.1 PCT should be based.

Therefore, this presentation of a number of independent claims makes it difficult, if at all possible, to determine the matter for which protection is sought and places an undue burden to others seeking to establish the extent of monopoly requested.

PATENT COOPERATION TREATY

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•			(P	CT Rule 43 <i>bis</i> :1)
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Applicant	JDC ELECTR	ONICS N.V		
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1. This opinion of Box No. I Box No. II Box No. III Box No. IV Box No. V	Basis of the o Priority Non-establish Lack of unity	ment of opinion with re	gard to novelty, invent	ive step and industrial applicability o novelty, inventive step or industrial atement
☐ Box No. VI	Certain docu	ments cited .		
☐ Box No. VII	Certain defec	ts in the international a	pplication	•
☑ Box No. VII	l Certain obse	rvations on the internat	ional application	•
2. FURTHER AC	TION	•		
written opinion the applicant c International B	of the internation hooses an Authoureau under Ru onsidered.	ority other than this one le 66.1 <i>bis</i> (b) that writte	to be the IPEA and the n opinions of this Interi	ill usually be considered to be a . However, this does not apply where e chosen IPEA has notifed the national Searching Authority
If this opinion i submit to the I months from to whichever exp	PEA a written re ne date of mailir	bove, considered to be only together, where ap ng of Form PCT/ISA/220	a written opinion of th propriate, with amendr or before the expiration	e IPEA, the applicant is invited to nents, before the expiration of three on of 22 months from the priority date,
For further opt	ions, see Form	PCT/ISA/220.		
3. For further det	ails, see notes t	to Form PCT/ISA/220.		•
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International application No. PCT/IB2005/050405

_	Box No	o. I Basis of the opinion
1.	the lan	gard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
	☐ Th	is opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).
·2.	With re	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
	· 🗆	a sequence listing
•		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
		in computer readable form
	c. tim	e of filing/furnishing:
	· 🗖	contained in the international application as filed.
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		furnished subsequently to this Authority for the purposes of search.
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International application No. PCT/IB2005/050405

Box No. V Reasoned statement under Rule 43bis.1(a)(I) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-20

No: C

No:

Inventive step (IS)

Yes: Claims

Claims

Claims

1-20 1-20

Industrial applicability (IA)

Yes: Claims No: Claims

<u>.</u>

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

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- 2.2 The subject-matter of independent claim 1 differs from the disclosure of D1 in that: one of the arms includes a 4-bar linkage.
- 2.3 The problem to be solved by the present invention may therefore be regarded as how to (re-)position the display over a wide range of viewing positions.
- 2.4 In view of D2 the solution proposed in claim 1 of the present application cannot be

considered as involving an inventive step (Article 33(3) PCT) since D2 clearly teaches that the use of a 4-bar linkage (pair of links 9,10) with a piston for balancing the mass advantageously allows to position the display at an arbitrary position.

- 2.5 Therefore the features disclosed in D1 and D2 would be combined by the skilled person, without exercise of any inventive skills in order to solve the problem posed. The proposed solution in independent claim 1 thus cannot be considered inventive (Article 33(3) PCT).
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International application No.

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